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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/554,387	
			Filing Date	October 25, 2005	
			First Named Inventor	SHAALTIEL Yoseph et al	
			Group Art Unit	1652	
			Examiner Name	RAMIREZ Delia M.	
Sheet	2	Of	6	Attorney Docket Number	30570
<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	6	Communication Pursuant to Article 96(2) EPC Dated 31 October 2007 From the European Patent Office Re.: Application No. 04713966.2.			
	7	European Search Report and the European Search Opinion Dated 01 April 2011 From the European Patent Office Re. Application No. 10012375.1.			
	8	European Search Report and the European Search Opinion Dated 05 April 2011 From the European Patent Office Re. Application No. 10012374.4.			
	9	European Search Report and the European Search Opinion Dated 08 April 2011 From the European Patent Office Re. Application No. 10012372.8.			
	10	European Search Report and the European Search Opinion Dated 08 April 2011 From the European Patent Office Re. Application No. 10012376.9.			
	11	Examination Report Dated 12 August 2005 From the Government of India, Patent Office Re.: Application No. 631/del/2001.			
	12	Examination Report Dated 12 June 2007 From the Government of India, Patent Office Re.: Application No. 3150/CHENP/2005.			
	13	Examination Report Dated 18 June 2010 From the Instituto Mexicano de la Propriedad Industrial Re.: Application No. PA/a/2006/009612.			
	14	International Search Report and the Written Opinion Dated 15 December 2005 From the International Searching Authority Re.: Application No. PCT/IL2005/000228.			
	15	International Search Report Dated 17 February 2006 From the International Searching Authority Re.: Application No. PCT/IL04/00181.			
	16	Interview Summary Dated 07 April 2011 From the US Patent and Trademark Office Re.: Application No. 12/385,894.			
	17	Invitation Pursuant to Article 94(3) and Rule 71(1) EPC Dated 31 March 2011 From the European Patent Office Re.: Application No. 04713966.2.			
	18	Invitation to Respond to Written Opinion Dated 17 August 2010 From the Intellectual Property Office of Singapore Re. Application No. 2009073719.			
	19	Notice of Acceptance Dated 08 December 2010 From the South African Patent Office Re. Application No. 2009/07804.			
	20	Office Letter Dated 14 January 2008 From the Government of India, Patent Office Re.: Application No. 3150/CHENP/2005.			
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	23	Official Action Dated 08 January 2008 From the US Patent and Trademark Office Re.: Application No. 10/784,295.			
	24	Official Action Dated 12 November 2010 From the US Patent and Trademark Office Re. Application No. 12/690,977.			
	25	Official Action Dated 26 September 2008 From the US Patent and Trademark Office Re.: Application No. 11/790,991.			
	26	Official Action Dated 29 January 2008 From the US Patent and Trademark Office Re.: Application No. 11/790,991.			
	27	Requisition by the Examiner Dated 03 August 2006 From the Canadian Intellectual Property Office Re.: Application No. 2,266,851.			
	28	Response Dated 01 December 2010 to Notice of Reason for Rejection of 31 August 2010 From the Japanese Patent Office Re. Application No. 2007-500352.			
	29	Response Dated 09 January 2011 to Notice of Acceptance of 08 December 2010 From the South African Patent Office Re. Application No. 2009/07804.			
	30	Response Dated 14 February 2011 to Examination Report of 18 June 2010 From the Instituto Mexicano de la Propriedad Industrial Re.: Application No. PA/a/2006/009612.			
	31	Response Dated 15 February 2011 to Examiner's Report of 18 January 2010 From the Australian Government, IP Australia Re. Application No. 2007201909.			
	32	Response Dated 15 November 2010 to Office Action of 15 July 2010 From the Israel Patent Office Re.: Application No. 177586.			
	33	Response Dated 17 November 2010 to Invitation to Repond to Written Opinion and Search Report of 18 June 2010 Issued by the Hungarian Patent Office at 13 May 2010 From the Intellectual Property Office of Singapore Re. Application No. 200907212-5.			
	34	Response Dated 20 December 2010 to Invitation to Respond to Written Opinion of 17 August 2010 From the Intellectual Property Office of Singapore Re. Application No. 2009073719.			
	35	Response Dated 22 April 2010 to Examination Report Dated 25 September 2009 (Docketed on 03 March 2010) From the Instituto Mexicano de la Propriedad Industrial Re.: Application No. PA/a/2006/009612.			
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	37	Response Dated 22 November 2010 to Official Action of 21 June 2010 From the US Patent and Trademark Office Re.: Application No. 12/385,894.			
	38	Response Dated 24 November 2010 to Office Action of 25 July 2010 From the Israeli Patent Office Re.: Application No. 171561.			
	39	Response Dated 25 April 2010 to Office Action of 23 September 2009 From the Israeli Patent Office Re.: Application No. 182888.			
	40	Response Dated 28 November 2010 to Examination Report of 31 August 2009 From the Australian Government, IP Australia Re.: Application No. 2005214181.			
	41	Response Dated 30 November 2009 to Examiner's Report of 01 December 2008 From the Australian Government, IP Australia Re.: Application No. 2004234635.			
	42	Search Report and Written Opinion Dated 05 October 2010 From the Intellectual Property Office of Singapore Issued by the Austrian Patent Office Re. Application No. 200717273-7.			
	43	Supplementary Partial European Search Report Dated 07 March 2007 From the European Patent Office Re.: Application No. 04713966.2.			
	44	Translation of the Office Action Dated 31 August 2007 Form the Patent Office of the People's Republic of China Re.: Application No. 200480017916.2.			
	45	Translation of the Official Action Dated 16 January 2007 From the Japanese Patent Office Re.: Application No. 515465/98.			
	46	Written Opinion Dated 17 Febuary 2006 From the International Searching Authority Re.: Application No. PCT/IL04/00181.			
	47	Atkinson "Protein Trafficking in the Secretary and Endocytic Pathways", G817 Eukaryotic Cell Biology 2006, Internet Article, XP007917298, Retrieved From the Internet, P.1-10, 2006.			
	48	Berg-Fussman et al. "Human Acid ?-Glucosidase. N-Glycosylation Site Occupancy and the Effect of Glycosylation on Enzymatic Activity", The Journal of Biological Chemistry, 268(20): 14861-14866, 15 July 1993.			
	49	Chica et al. "Semi-Rational Approaches to Engineering Enzyme Activity: Combining the Benefits of Directed Evolution and Rational Design", Current Opinion in Biotechnology, 16: 378-384, 2005.			
	50	Cramer et al. "Transgenic Plants for Therapeutic Proteins: Linking Upstream and Downstream Strategies", Current Topics in Microbiology and Immunology, XP009038354, 240: 95-118, 1999. P.109-112, § 1.			
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	51	Crooy et al. "Recombinant Glucocerebrosidase and Lyme Disease Vaccine Made by Genetic Engineering (No. 11 in A Series of Articles to Promote A Better Understanding of the Use of Genetic Engineering", Journal of Biotechnology, 76: 259-263, 2000.			
	52	Davis et al. "MemO: A Consensus Approach to the Annotation of A Protein's Membrane Organization", In Silico Biology, XP009141065, 6(5): 387-399, 2006. P.391-392, 395, 397.			
	53	ExpASy "NiceZyme View of Enzyme: EC 3.2.1.45", UniProtKB/Swiss-Prot, ExpASy, 2008.			
	54	Fu et al. "Retention of Subunits of the Oligosaccharyltransferase Complex in the Endoplasmic Reticulum", The Journal of Biological Chemistry, XP002624334, 275(6): 3984-3990, 11 February 2000. P.3984, Col.2, § 2.			
	55	Giddings et al. "Transgenic Plants as Factories for Biopharmaceuticals", Nature Biotechnology, 18(11): 1151-1155, November 2000.			
	56	Gomord et al. "Posttranslational Modification of Therapeutic Proteins in Plants", Current Opinion in Plant Biology, 7: 171-181, 2004.			
	57	Hayes et al. "Remodelled, Recombinant Glucocerebrosidase (r-GCR)", Accession AAW07885, 28 January 1997.			
	58	Hein et al. "Evaluation of Immunoglobulins From Plant Cells", Biotechnology Progress, XP001037084, 7(5): 455-461, 1991.			
	59	Hood et al. "Plant Binary Vector PIG121-Hm DNA, Complete Sequence", GenBank Nucleotide, Accession No. AB489142.1, 2009.			
	60	Jefferson et al. "GUS Fusions: ?-Glucuronidase as A Sensitive and Versatile Gene Fusion Marker in Higher Plants", The EMBO Journal, 6(13): 3901-3907, 1987.			
	61	Karg et al. "The Production of Biopharmaceuticals in Plant Systems", Biotechnology Advances, XP002624335, 27(6): 879-894, November 2009.			
	62	Lerouge et al. "N-Glycoprotein Biosynthesis in Plants: Recent Developments and Future Trends", Plant Molecular Biology, XP002140796, 38: 31-48, 01 January 1998. Figs.1, 2, 3, 5, 7.			
	63	Schähs et al. "Production of A Monoclonal Antibody in Plants With A Humanized N-Glycosylation Pattern", Plant Biotechnology Journal, 5(5): 657-663, September 2007. Abstract.			
	64	Shaaltiel et al. "Production of Glucocerebrosidase With Terminal Mannose Glycans for Enzyme Replacement Therapy of Gaucher's Disease Using A Plant Cell System", Plant Biotechnology Journal, XP002609251, 5(5): 579-590, September 2007.			
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